

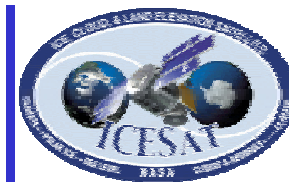


ICESat SIPS
Science Team Meeting
David W. Hancock III, GSFC/WFF
Anita Brenner, Raytheon ITSS
February 14-15, 2001
Scripps Institution, CA



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration

Science Algorithm Software Status



- **Version 1– delivered Nov 2000**
 - produces a version of GLA01-03, 05-15
 - significant testing completed under several builds



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration

Science Algorithm Software Status



- **Version 2**
 - coding modifications under way
 - several utilities being coded
 - division of GLAS-Exec into L1A, lidar, and altimeter processor



Goddard Space
Flight Center
National Aeronautics and
Space Administration

Science Data Management System (SDMS) Status



- **Version 1**
 - completed in Oct
 - provides most operating functions except planning and tape archive
- **Version 2**
 - planning jobs being developed
 - tape archive mostly complete
 - ECS interfaces mostly complete



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration



Product Definitions

- **Products will carry ASCII header records that are same record size as data.**
- **V2 product data records defined and soon available on glas.wff.nasa.gov/glas_pv**



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration



Problems

- **Creation of test data sets and testing effort more than estimated**
- **Lost staff not being replaced to stretch out funds. However, this strategy also lengthens development time.**
- **L0 definition – not clear and changing**
- **Missing inputs from Science team – mask, global tide model data and regional tide data**
- **Finalizing LIDAR algorithms –Lidar Team supporting well but requested several changes**



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration



Issues Being Worked

- **Absolute time tag**
 - digitizer start time
 - GPS delta
- **Oscillator drift (for time tag and range correction)**
- **Instrument understanding – need instrument team meetings (time tag, CD delay, offset measurements, ...)**
- **Time tag with no GPS**



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration

GLA16



- **Definition has been made**
- **Sample product with partial parameters made by ECS**
- **ESDT to be completed**
- **HDF-EOS5 libraries to be provided**



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration



Level 3 and 4 Products

- **Present I-SIPS understanding**
 - **created by science team**
 - **provided to main SCF**
 - **as needed create EOS meta data and reformat if requested into HDF-EOS**
 - **I-SIPS sends to NSIDC for archive and distribution**
- **Carried in documents as TBD**
- **Needs to be defined**



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration



I-SIPS Release Schedule

- **Version 1 – science algorithms planned July 2000, actual Nov 2000**
- **Version 1 – SDMS, Oct 2000**
- **Version 2 – old plan Feb 2001, new plan Apr 2001**
- **EOS system testing – moved to June 2001 by project**
- **Launch version – Aug 2001**



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration

I-SIPS Facility Status



- **Facility completely turned over to ICESat in December 2000 (schedule was August 2000).**
- **First phase hardware is installed and working.**
- **Second phase hardware on order.**



**Goddard Space
Flight Center**
National Aeronautics and
Space Administration

Instrument Support Facility (ISF) Status



- **Bldg 22 modifications completed**
- **Instrument support terminal being supplied by Ball - will include required real-time and command s/w. H/W due this Feb 2001. Upgraded s/w installed and tested in April.**
- **Server being used to support GLAS integration at GSFC.**
- **ICD being developed**